

PTO/SR/DBA (10-01)

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Substitute for form 1449/PTO

# **INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

(use as many sheets as necessary)

## **Complete if Known**

Application Number	10/722,077
Filing Date	November 24, 2003
First Named Inventor	Anthony F. Barbet
Art Unit	1645
Examiner Name	
Attorney Docket Number	UF-167XC3D2

Sheet

1

of

4

## **U.S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number Number - Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
PD	U1	US-4,879,213	11-07-1989	Fox et al.	All
↓	U2	US-5,643,578	07-01-1997	Robinson et al.	All
	U3	US-5,783,441	07-21-1998	Carl et al.	All
	U4	US-6,025,338	02-15-2000	Barbet et al.	All
	U5	US-6,261,072	08-26-2001	Barbet et al.	All
	U6	US-			
	U7	US-			
	U8	US-			
	U9	US-			
	U10	US-			
	U11	US-			
	U12	US-			
	U13	US-			
	U14	US-			
	U15	US-			
	U16	US-			
	U17	US-			
	U18	US-			
	U19	US-			
	U20	US-			

## **FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	1*
PD	F1	WO 00/12030	10-18-1999	Wash St U. Res Found Inc.	All	
↓	F2	WO 98/10554	04-23-1998	Univ. of Florida	All	
	F3	WO 99/13720	03-25-1999	The Ohio St Univ	All	
	F4					
	F5					
	F6					
	F7					
	F8					
	F9					
	F10					

Examiner  
Signature

/Patricia Duffy/

Date  
Considered

10/08/2006

\*EXAMINER. Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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PTO/SB/08D (10-01)

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		Application Number	10/722,077
		Filing Date	November 24, 2003
		First Named Inventor	Anthony F. Barbet
		Group Art Unit	1645
		Examiner Name	
Sheet 2 of 4		Attorney Docket Number	UF-167XC3D2

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials <sup>1</sup>	Cita No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article, (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
PD	R1	ROWIE, Michael V. et al., "Potential Value of Major Antigenic Protein 2 for Serological Diagnosis of Heartwater and Related Ehrlichia Infections," <i>Clinical and Diagnostic Laboratory Immunology</i> , 1999, 6(2):209-215, Pub: American Society for Microbiology	
	R2	BREITSCHWERDT, Edward B. et al., "Doxycycline Hydral Treatment of Experimental Canine Ehrlichiosis Followed By Challenge Inoculation With Two Ehrlichia canis Strains," <i>Antimicrobial Agents and Chemotherapy</i> , 1998, 42(2):362-368, Pub: American Society for Microbiology	
	R3	BROQUI, P. et al., "Serologic Diagnosis of Human Monocytic Ehrlichiosis by Immunoblot Analysis," <i>Clinical &amp; Diagnostic Laboratory Immunology</i> , 1994, 1(6):645-9, Pub: American Society for Microbiology	
	R4	BURGESS, Wilson H. et al., "Possible Dissociation of the Heparin-binding and Mitogenic Activities of Heparin-binding (Acidic Fibroblast) Growth Factor-1 from Its Receptor-binding Activities by Site-directed Mutagenesis of a Single Lysine Residue," <i>Journal of Cell Biology</i> , 1990, 111:2129-2138, Pub: The Rockefeller Univ. Press	
	R5	COX, Graham J.M., et al., "Bovine Herpesvirus 1: Immune Responses in Mice and Cattle Injected with Plasmid DNA," <i>Journal of Virology</i> , 1993, 67(9):5664-5667, Pub: American Society for Microbiology	
	R6	DANKO, I. and J.A. Wolff, "Direct Gene Transfer into Muscle," <i>Vaccine</i> , 1994, 12:1499-1553, Pub: Unknown	
	R7	Du PLESSIS, J.L., "Immunity in Heartwater: I. A Preliminary Note on the Role of Serum Antibodies," <i>Onderstepoort J. Vet. Res.</i> , 1970, 37(3):147-150, Pub: Heer Printing Company (Pty) Ltd. for the Gov't Printer, Pretoria, Republic Of South Africa	
	R8	DUTTA, Sukanta K. et al., "Association of Deficiency in Antibody Response to Vaccine and Heterogeneity of Ehrlichia risticii Strains with Potomac Horse Fever Vaccine Failure in Horses," <i>Journal of Clinical Microbiology</i> , 1998, 36(2):506-512, Pub: American Society for Microbiology	
	R9	GODING, J.W., "Production and Application of Monoclonal Antibodies in Cell Biology, Biochemistry & Immunology," <i>Monoclonal Antibodies: Principles &amp; Practice</i> (2d ed.), 1980, Ch.3, 78-83, Pub: Academic Press, Harcourt Brace Jovanovich, Publishers, Australia	
	R10	KELLY, P.J. et al., "Serological Evidence for Antigenic Relationships Between Ehrlichia canis and Cowdria rumiantium," <i>Res. Vet. Sci.</i> , 1994, 56:170-4, Pub: unknown	
	R11	LAZAR, Ellene et al., "Transforming Growth Factor $\alpha$ : Mutation of Aspartic Acid 47 and Leucine 48 Results in Different Biological Activities," <i>Molecular and Cellular Biology</i> , 1988, 8(3):1247-1252, Pub: American Society for Microbiology	
✓	R12	LEWIS, Jr., G.E., et al., "Experimentally induced infection of dogs, cats, and nonhuman primates with Ehrlichia equi, etiologic agent of equine ehrlichiosis," <i>Am. J. Vet. Res.</i> , 1975, 36(1):85-88. (abstract), Pub: Unknown	

Examiner Signature	/Patricia Duffy/	Date Considered	10/08/2006
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<sup>1</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>2</sup>Applicant's unique citation designation number (optional). <sup>3</sup>Applicant is to place a check mark here if English language Translation is attached

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		Application Number	10/722,077
		Filing Date	November 24, 2003
		First Named Inventor	Anthony F. Barbel
		Group Art Unit	1645
		Examiner Name	
		Attorney Docket Number	UF-167XC3D2
Sheet	3	of	4

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.†	Include name of the author (in CAPITAL LETTERS), title of the article, (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issu number(s), publisher, city and/or country where published.	T‡
PD	R13	MAHAN, S.M., et al., "Molecular cloning of a gene encoding the immunogenic 21 kDa protein of <i>Cowdria ruminantium</i> ," <i>Microbiology</i> , 1994, 140:2135-2142, Pub: Unknown	
	R14	McGUIRE, Travis C., et al., "Recombinant Vaccinia Virus Expression of <i>Anaplasma marginale</i> Surface Protein MSP-1a: Effect of Promoters, Leader Sequences and GPI Anchor Sequence on Antibody Response," <i>Vaccine</i> , 1994, 12(5):465-471, Pub: Butterworth-Heinemann Ltd.	
	R15	NYIKA, A. et al., "A DNA Vaccine Protects Mice Against the Ricketsial Agent <i>Cowdria ruminantium</i> ," <i>Parasite Immunology</i> , 1998, 20:111-119, Pub: Blackwell Science Ltd.	
	R16	OBERLE, Suzan M. and Anthony F. Barbel, "Derivation of the Complete <i>msp4</i> Gene Sequence of <i>Anaplasma marginale</i> Without Cloning," <i>Gene</i> , 1993, 136:291-294, Pub: Elsevier Science Publishers B.V.	
	R17	REDDY, G. Roman, et al., "Sequence Heterogeneity of the Major Antigenic Protein 1 Genes from <i>Cowdria ruminantium</i> Isolates from Different Geographical Areas," <i>Clinical &amp; Diagnostic Laboratory Immunology</i> , 1996, 3(4):417-422, Pub: American Society for Microbiology	
	R18	RIKIHISA, Y., et al., "Western Immunoblot Analysis of <i>Ehrlichia chaffeensis</i> , <i>E. canis</i> , or <i>E. ewingii</i> Infections in Dogs and Humans," <i>J. Clin. Microbiology</i> , 1994, 32(9):2107-12, Pub: American Society for Microbiology	
	R19	RURANGIRWA, Fred R., et al., "Restriction of Major Surface Protein 2 (MSP2) Variants During Tick Transmission of the <i>Ehrlichia Anaplasma marginale</i> ," <i>Proc. Natl. Acad. Sci. USA</i> , 1999, 96:3171-3176 (abstract), Pub: Unknown	
	R20	SCHÖDEL, M.-T. Aguado and P.-H. Lambert, "Introduction: Nucleic Acid Vaccines, WHO, Geneva, 17-18 May 1994," <i>Vaccine</i> , 1994, 12(16):1491-1492, Pub: Butterworth-Heinemann Ltd., Switzerland	
	R21	SEDEGAH, Martha, et al., "Protection Against Malaria by Immunization with Plasmid DNA Encoding Circumsporozoite Protein," <i>Proc. Natl. Acad. Sci. USA</i> , 1994, 91:9860-9870, Pub: Unknown	
	R22	SUMNER, John W., et al., "Protection of Guinea-Pigs from Experimental Rocky Mountain Spotted Fever by Immunization with Baculovirus-Expressed <i>Rickettsia rickettsii</i> rOmpA Protein," <i>Vaccine</i> , 1995, 13(1):29-35, Pub: Elsevier Science Ltd., Great Britain	
	R23	UILENBERG, Gerrit, "Heartwater ( <i>Cowdria ruminantium</i> Infection): Current Status," <i>Advances in Veterinary Science and Comparative Medicine</i> , 1983, 27:427-480, Pub: Academic Press, Inc.	
V	R24	ULMER, J.B. et al., "Heterologous Protection Against Influenza by Injection of DNA Encoding a Viral Protein," <i>Science</i> , 1993, 259:1745-1749, Pub: Unknown	

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		Application Number	10/722,077
		Filing Date	November 24, 2003
		First Named Inventor	Anthony F. Barbé
		Group Art Unit	1645
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Sheet	4	of	4
		Attorney Docket Number	UF-167XC3D2

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PD ↓	R25	ULMER, Jeffrey B. et al., "DNA Vaccines Promising: A New Approach to Inducing Protective Immunity," <i>ASM News</i> , 1990, 62(9):476-479, Pub: American Society for Microbiology	
	R26	van VLIET, A.H.M. et al., "Molecular Cloning, Sequence Analysis, and Expression of the Gene Encoding the Immunodominant 32-Kilodalton Protein of <i>Cowdria ruminantium</i> ," <i>Infection &amp; Immunity</i> , 1994, 62(4):1451-6, Pub: Unknown	
	R27	Van VLIET, A.H.M., et al., "Use of a Specific Immunogenic Region on the <i>Cowdria ruminantium</i> MAP1 Protein in a Serological Assay," <i>J. Clinical Microbiology</i> , 1995, 33(9):2405-10, Pub: American Society of Microbiology	
	R28	VEMULAPALLI, R. et al., "Pathogenic, Immunologic, and Molecular Differences Between Two <i>Ehrlichia risticii</i> Strains," <i>J. Clinical Microbiology</i> , 1995, 33(11):2987-2993, Pub: American Society for Microbiology	
	R29	VISHWANATH, Suryanarayanan, et al., "A Recombinant <i>Rickettsia conorii</i> Vaccine Protects Guinea Pigs from Experimental Boutonneuse Fever and Rocky Mountain Spotted Fever," <i>Infection and Immunity</i> , 1990, 58(3):648-653	
	R30		
	R31		
	R32		
	R33		
	R34		
	R35		
	R36		

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